

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050218\
 Data File : BF105036.D
 Acq On : 2 May 2018 17:35
 Operator : JU/SJ
 Sample : J2157-15 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-043018-B

Quant Time: May 03 04:23:41 2018
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 02 17:25:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	93807	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	382705	20.00	ng	0.00
38) Acenaphthene-d10	9.83	164	165186	20.00	ng	0.00
63) Phenanthrene-d10	11.32	188	255004	20.00	ng	0.00
75) Chrysene-d12	14.03	240	196300	20.00	ng	0.00
86) Perylene-d12	15.59	264	163255	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.40	112	289374	47.17	ng	0.00
7) Phenol-d6	6.42	99	349232	46.33	ng	-0.02
23) Nitrobenzene-d5	7.35	82	199739	34.08	ng	-0.02
41) 2,4,6-Tribromophenol	10.62	330	75415	44.01	ng	-0.01
44) 2-Fluorobiphenyl	9.15	172	380096	36.35	ng	-0.01
78) Terphenyl-d14	12.91	244	280653	32.60	ng	0.00

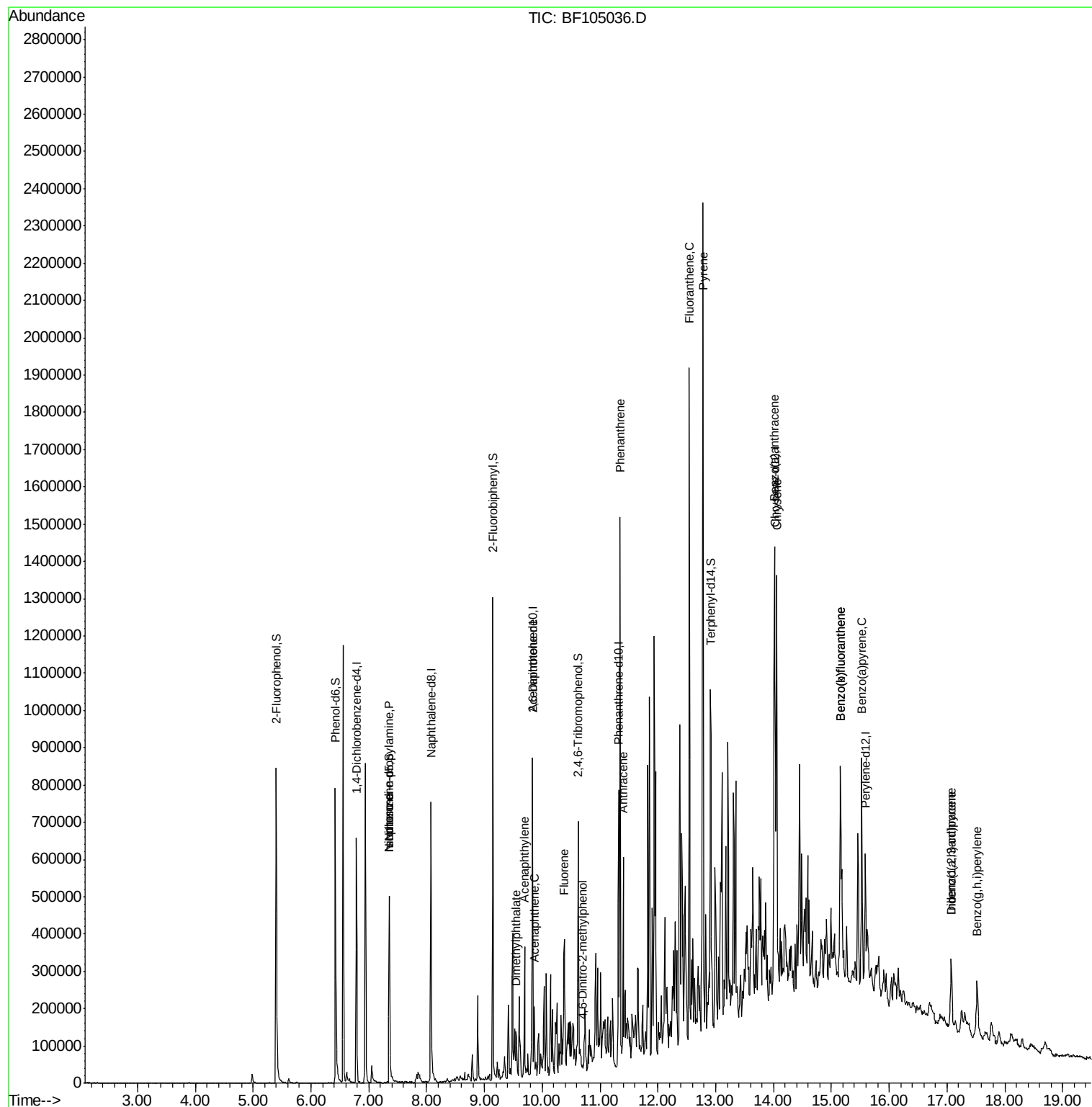
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.42	77	567	Below Cal	#	1
19) n-Nitroso-di-n-propylamine	7.35	70	25855	5.249	ng	# 73
25) Isophorone	7.35	82	199736	16.116	ng	# 64
48) Acenaphthylene	9.69	152	123550	7.184	ng	99
49) Dimethylphthalate	9.55	163	39248	3.013	ng	99
50) 2,6-Dinitrotoluene	9.83	165	25271	10.484	ng	# 26
51) Acenaphthene	9.86	154	31345	2.987	ng	95
57) Fluorene	10.38	166	93026	8.740	ng	98
64) 4,6-Dinitro-2-methylphenol	10.70	198	971	8.009	ng	# 45
70) Phenanthrene	11.35	178	563056	39.649	ng	100
71) Anthracene	11.40	178	197113	13.655	ng	99
74) Fluoranthene	12.54	202	638238	43.016	ng	97
76) Benzidine	12.64	184	1511	Below Cal	#	2
77) Pyrene	12.78	202	935968	64.326	ng	100
80) Benzo(a)anthracene	14.02	228	468130	39.918	ng	94
82) Chrysene	14.06	228	451694	37.499	ng	98
85) Indeno(1,2,3-cd)pyrene	17.07	276	113917	11.133	ng	# 92
87) Benzo(b)fluoranthene	15.16	252	430726	41.774	ng	95
88) Benzo(k)fluoranthene	15.16	252	430726	44.248	ng	98
89) Benzo(a)pyrene	15.53	252	287054	31.115	ng	97
90) Dibenzo(a,h)anthracene	17.08	278	40694	5.371	ng	# 87
91) Benzo(g,h,i)perylene	17.52	276	122293	16.659	ng	95

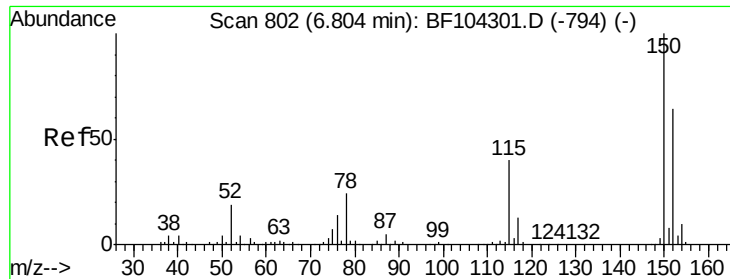
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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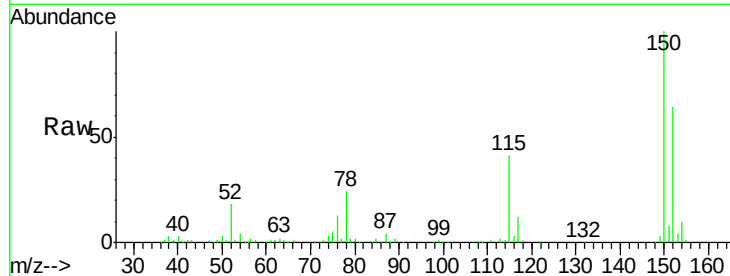


#1

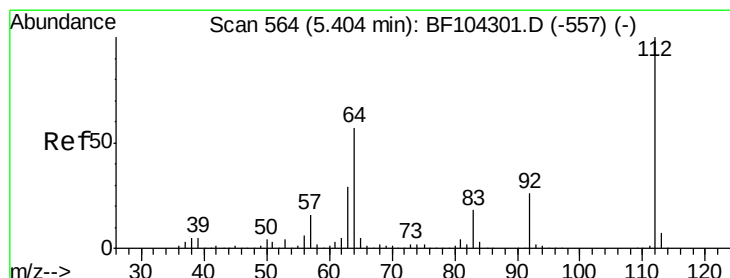
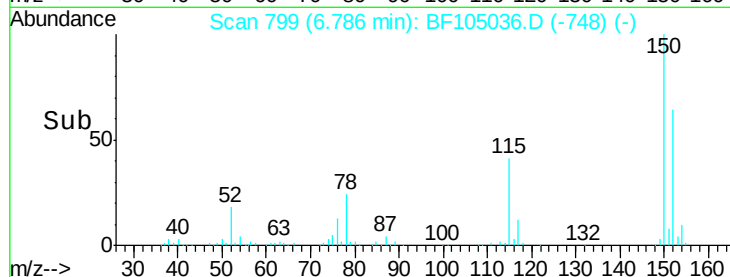
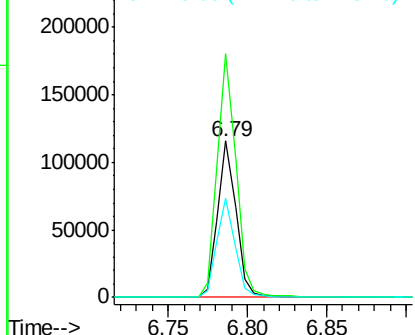
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 799
Delta R.T. -0.00 min
Lab File: BF105036.D
Acq: 2 May 2018 17:35

Instrument :
BNA_F
ClientSampleId :
CL-02-043018-B

Tgt Ion:152 Resp: 93807
Ion Ratio Lower Upper
152 100
150 155.8 124.6 186.8
115 63.3 50.1 75.1



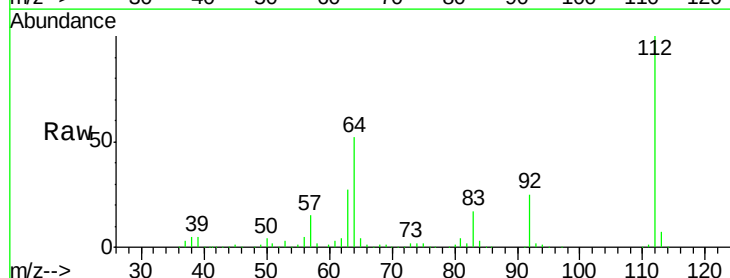
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



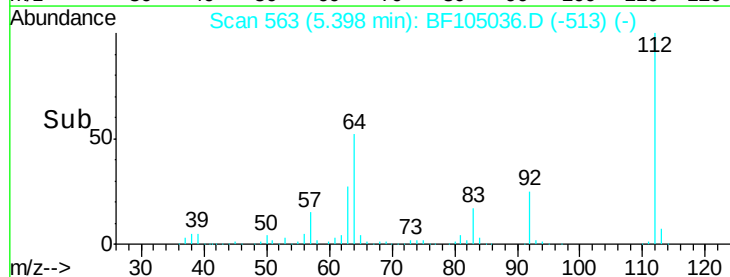
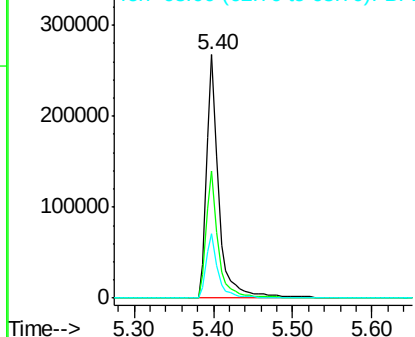
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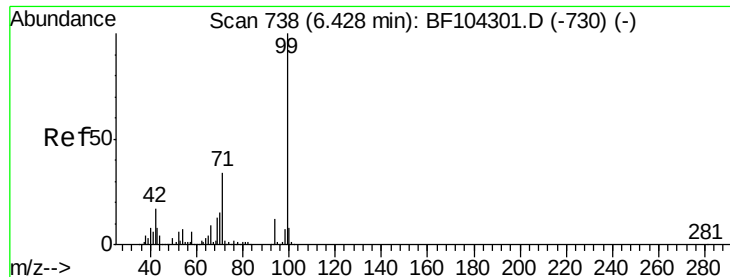
2-Fluorophenol
Concen: 47.168 ng
RT: 5.40 min Scan# 563
Delta R.T. -0.01 min
Lab File: BF105036.D
Acq: 2 May 2018 17:35

Tgt Ion:112 Resp: 289374
Ion Ratio Lower Upper
112 100
64 52.0 47.9 71.9
63 26.5 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 46.330 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.02 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

Instrument :

BNA_F

ClientSampleId :

CL-02-043018-B

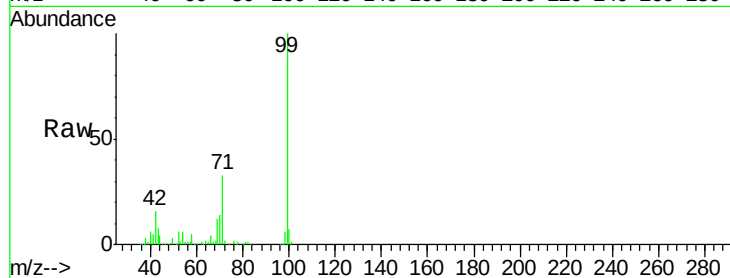
Tgt Ion: 99 Resp: 349232

Ion Ratio Lower Upper

99 100

42 15.9 14.5 21.7

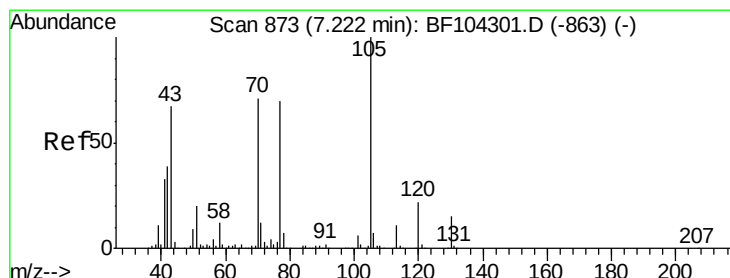
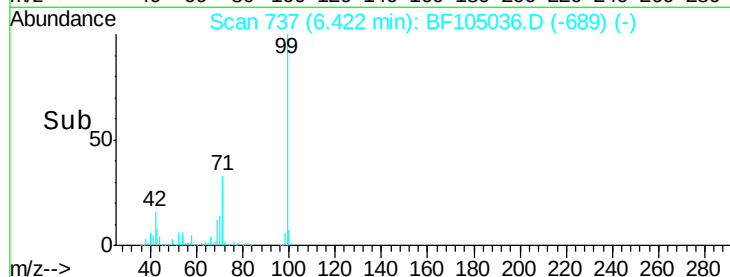
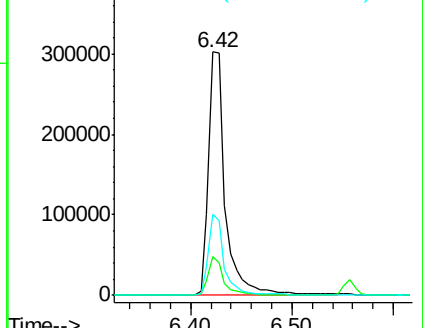
71 33.4 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 5.249 ng

RT: 7.35 min Scan# 895

Delta R.T. 0.14 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

Tgt Ion: 70 Resp: 25855

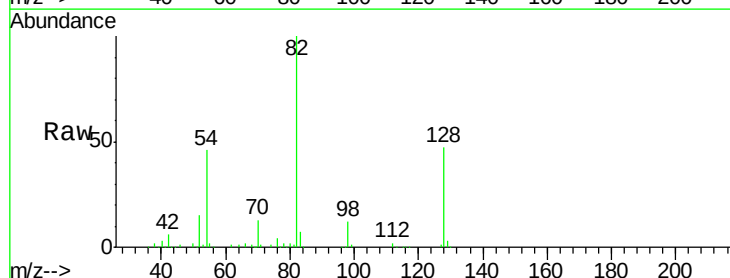
Ion Ratio Lower Upper

70 100

42 42.5 47.5 71.3#

101 0.0 7.4 11.2#

130 2.7 16.6 25.0#

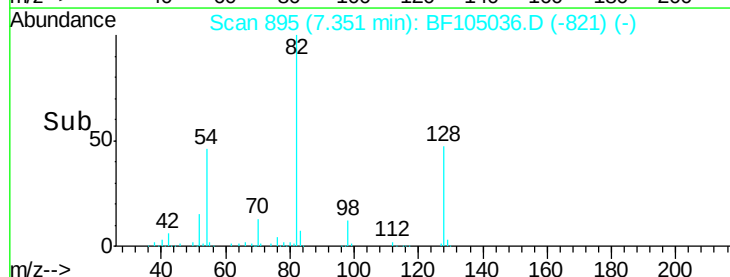
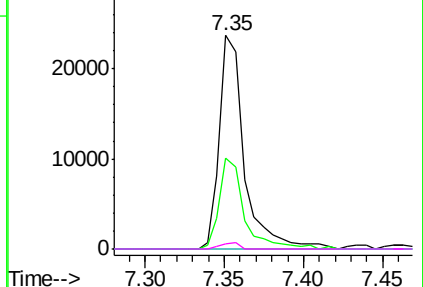


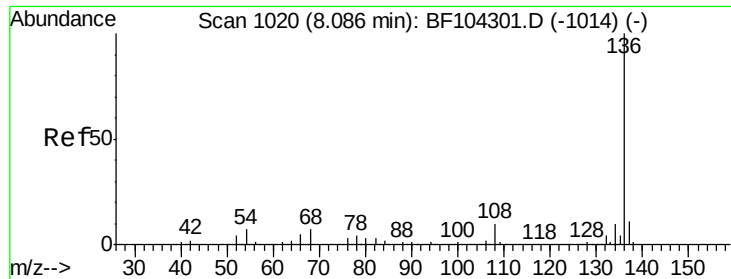
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

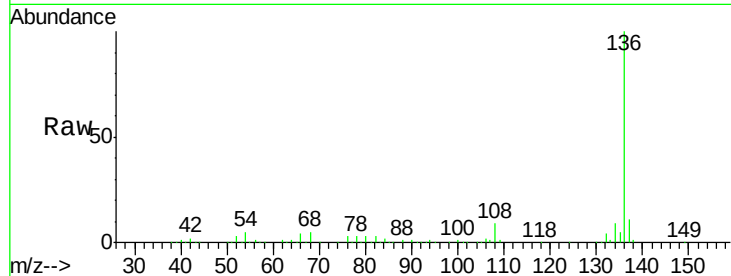




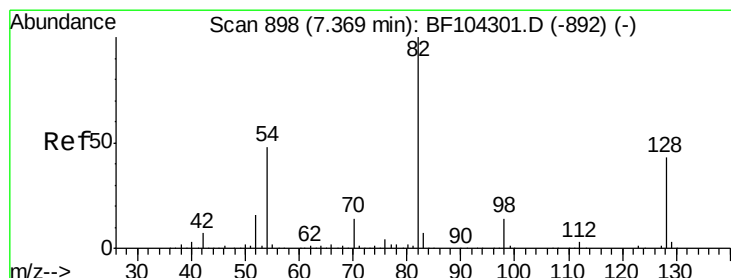
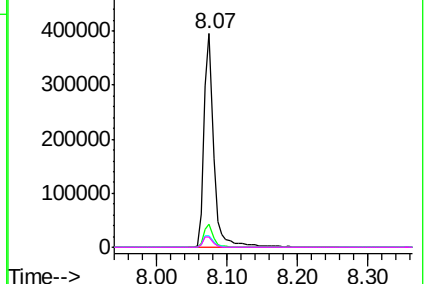
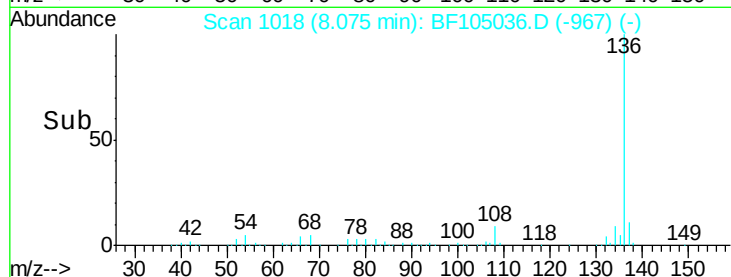
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.07 min Scan# 1018
Delta R.T. -0.00 min
Lab File: BF105036.D
Acq: 2 May 2018 17:35

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CL-02-043018-B

Tgt Ion:	136	Resp:	382705
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.9	13.3
54	5.5	6.6	9.8#
68	4.9	5.0	7.4#

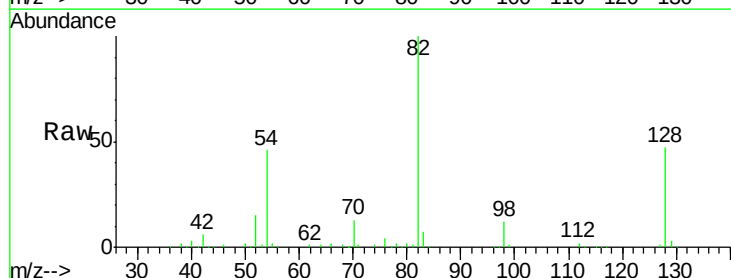


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

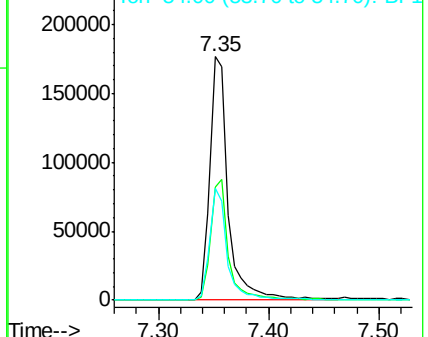
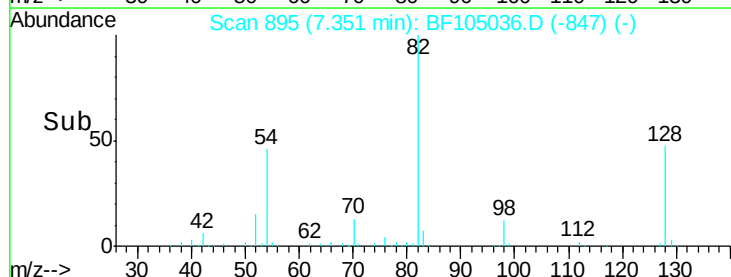


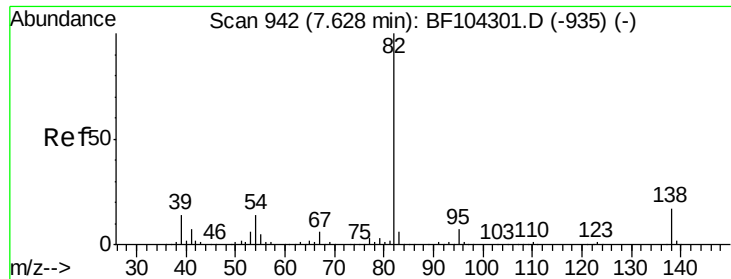
#23
Nitrobenzene-d5
Concen: 34.080 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.02 min
Lab File: BF105036.D
Acq: 2 May 2018 17:35

Tgt Ion:	82	Resp:	199739
Ion	Ratio	Lower	Upper
82	100		
128	46.6	36.1	54.1
54	45.7	41.4	62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 16.116 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.27 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

Instrument :

BNA_F

ClientSampleId :

CL-02-043018-B

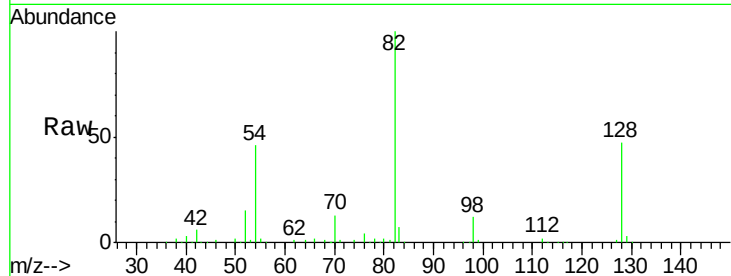
Tgt Ion: 82 Resp: 199736

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

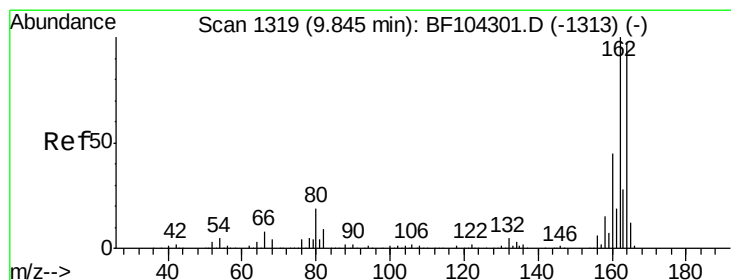
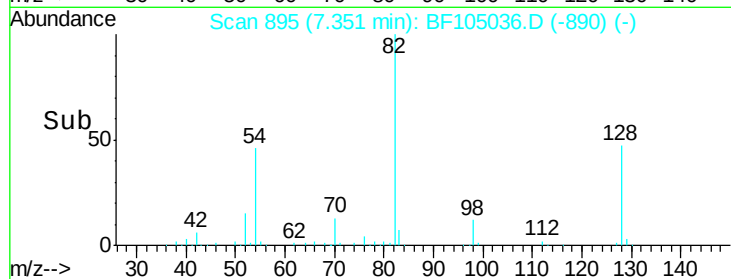
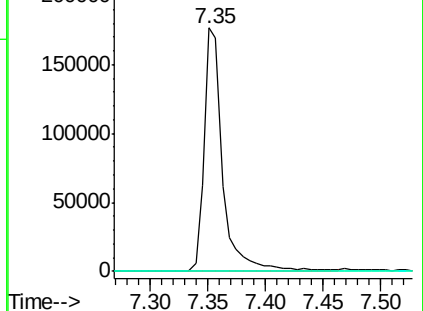
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

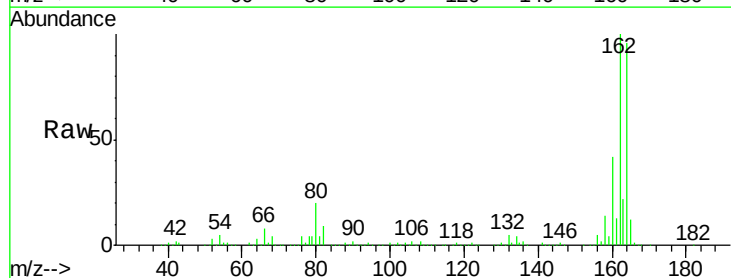
Tgt Ion: 164 Resp: 165186

Ion Ratio Lower Upper

164 100

162 104.7 86.1 129.1

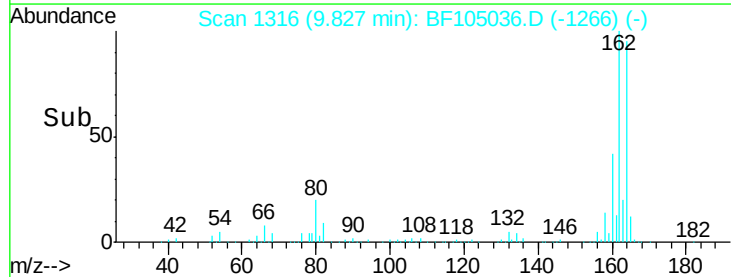
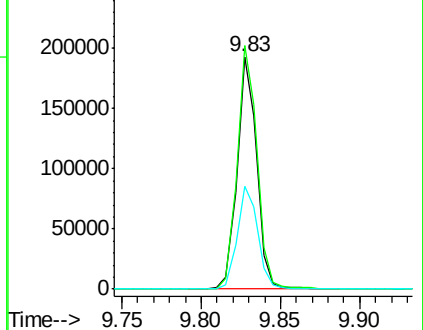
160 44.3 38.3 57.5

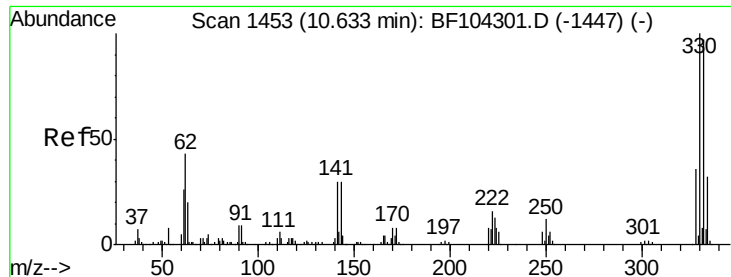


Abundance Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1

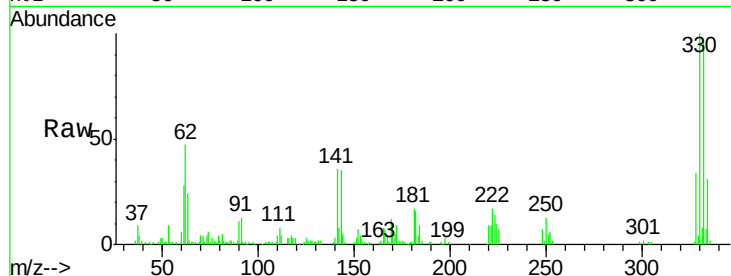




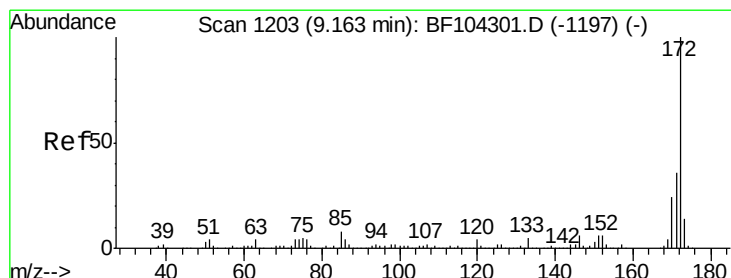
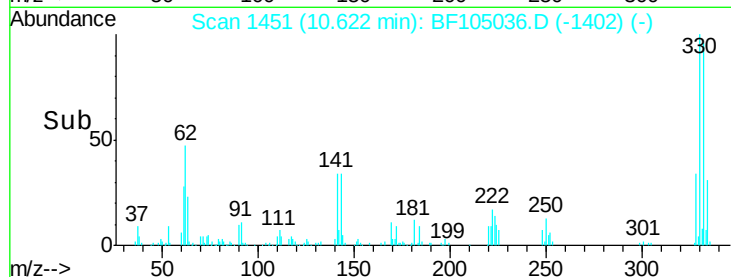
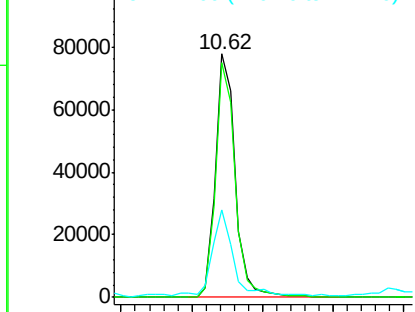
#41
 2,4,6-Tribromophenol
 Concen: 44.012 ng
 RT: 10.62 min Scan# 1451
 Delta R.T. -0.01 min
 Lab File: BF105036.D
 Acq: 2 May 2018 17:35

Instrument :
 BNA_F
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 CL-02-043018-B

Tgt Ion:330 Resp: 75415
 Ion Ratio Lower Upper
 330 100
 332 95.7 77.0 115.6
 141 37.2 29.9 44.9

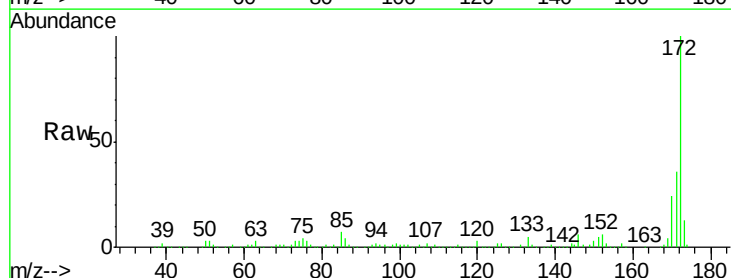


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

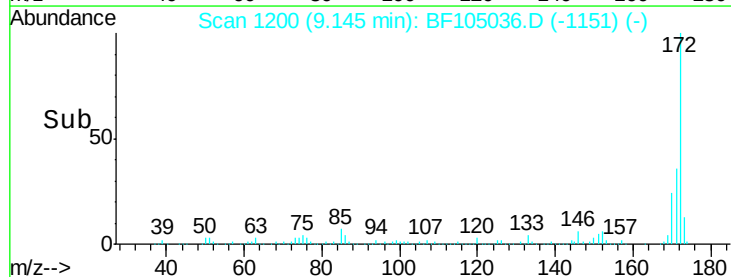
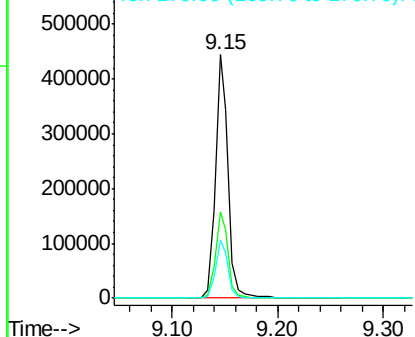


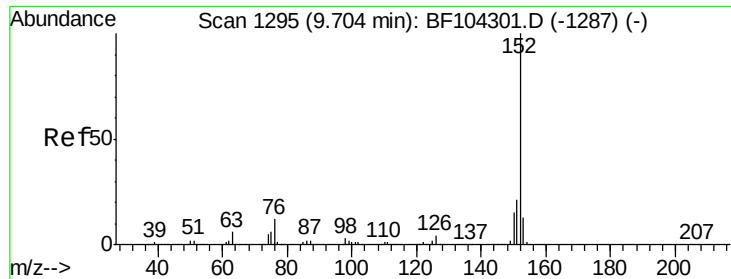
#44
 2-Fluorobiphenyl
 Concen: 36.350 ng
 RT: 9.15 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: BF105036.D
 Acq: 2 May 2018 17:35

Tgt Ion:172 Resp: 380096
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.7 44.5
 170 23.8 19.6 29.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

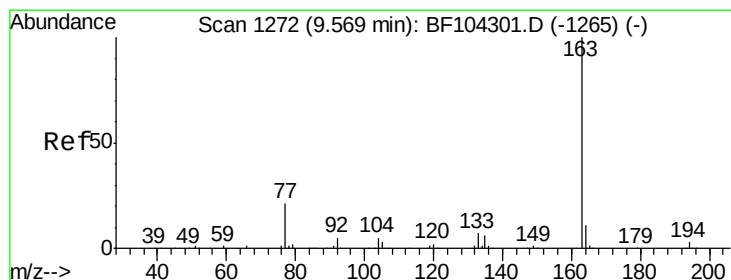
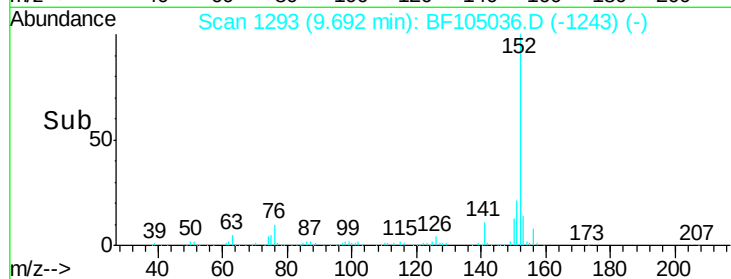
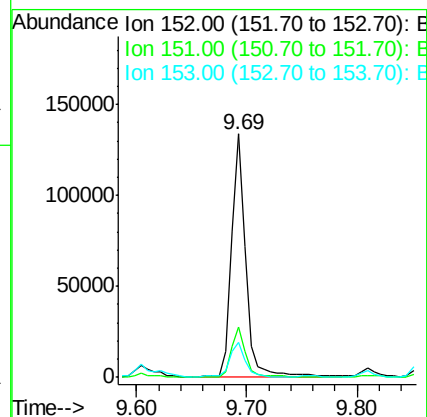
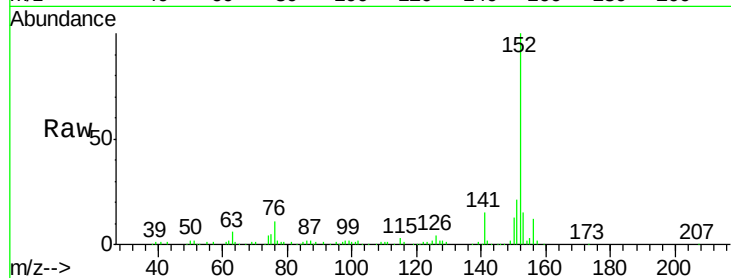




#48
Acenaphthylene
Concen: 7.184 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF105036.D
Acq: 2 May 2018 17:35

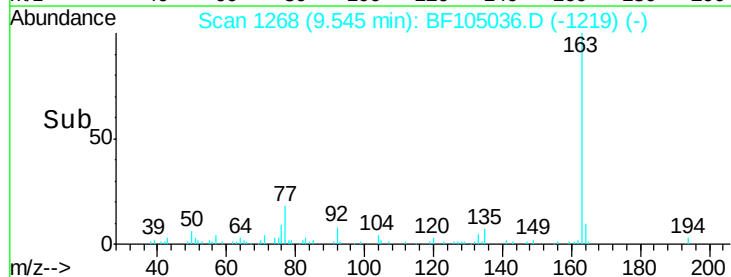
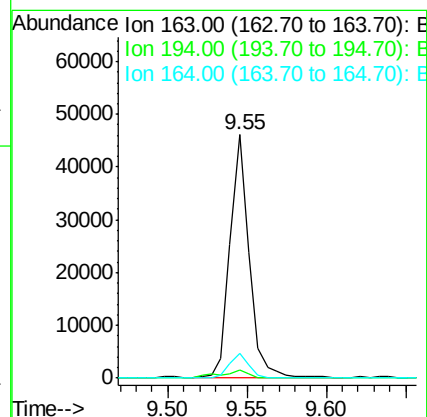
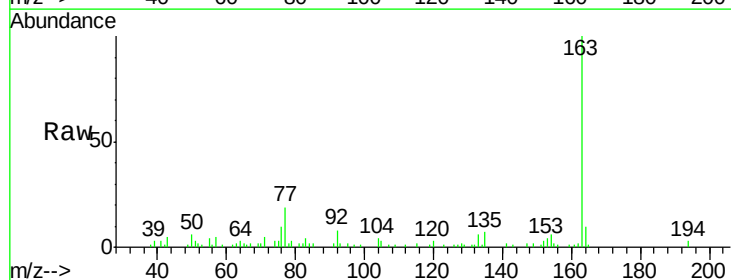
Instrument :
BNA_F
ClientSampleId :
CL-02-043018-B

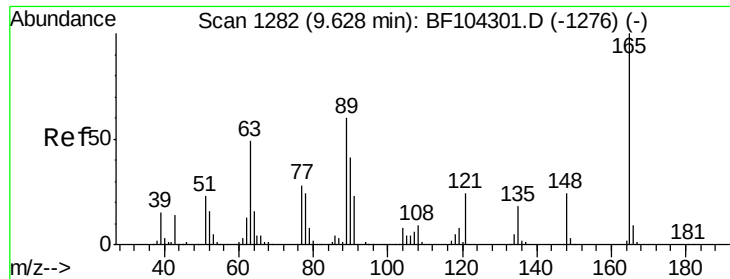
Tgt Ion:152 Resp: 123550
Ion Ratio Lower Upper
152 100
151 20.6 16.3 24.5
153 14.6 10.7 16.1



#49
Dimethylphthalate
Concen: 3.013 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.01 min
Lab File: BF105036.D
Acq: 2 May 2018 17:35

Tgt Ion:163 Resp: 39248
Ion Ratio Lower Upper
163 100
194 3.2 2.7 4.1
164 10.0 8.2 12.2

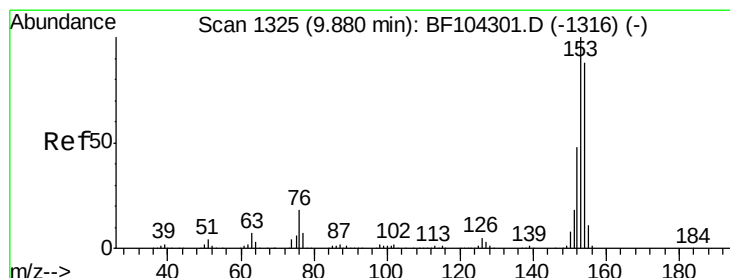
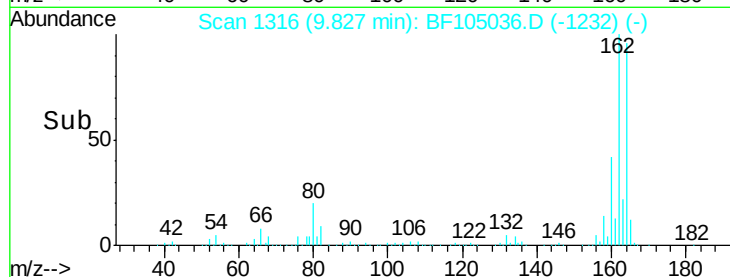
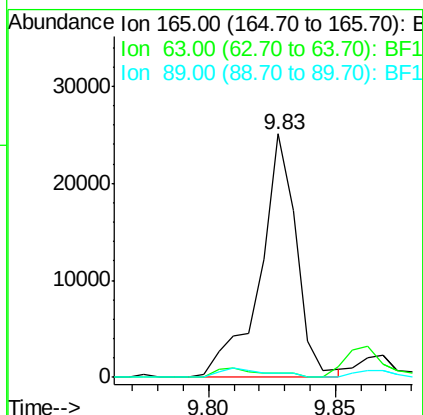
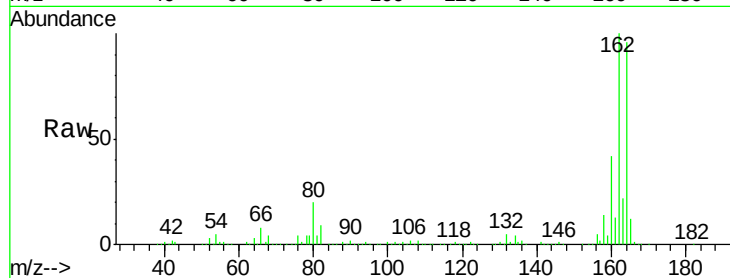




#50
 2,6-Dinitrotoluene
 Concen: 10.484 ng
 RT: 9.83 min Scan# 1316
 Delta R.T. 0.19 min
 Lab File: BF105036.D
 Acq: 2 May 2018 17:35

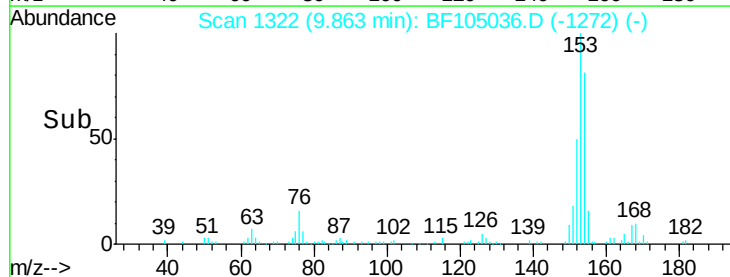
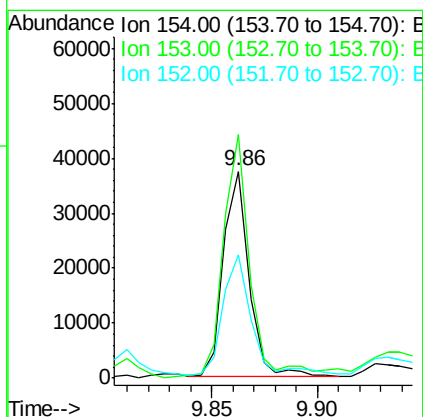
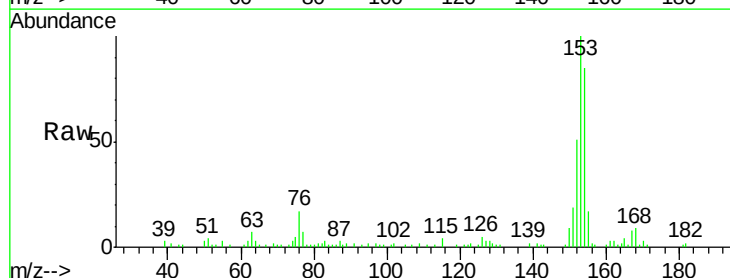
Instrument :
 BNA_F
 ClientSampleId :
 CL-02-043018-B

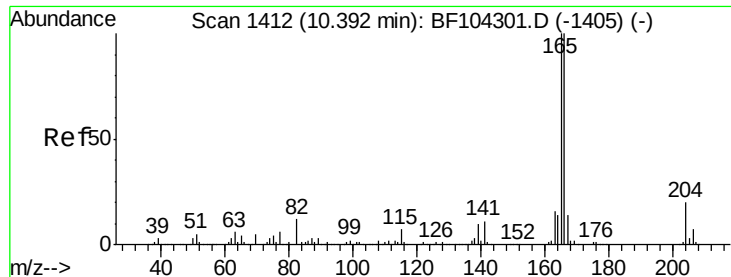
Tgt Ion:165 Resp: 25271
 Ion Ratio Lower Upper
 165 100
 63 1.8 44.7 67.1#
 89 1.8 44.0 66.0#



#51
 Acenaphthene
 Concen: 2.987 ng
 RT: 9.86 min Scan# 1322
 Delta R.T. -0.01 min
 Lab File: BF105036.D
 Acq: 2 May 2018 17:35

Tgt Ion:154 Resp: 31345
 Ion Ratio Lower Upper
 154 100
 153 117.7 91.2 136.8
 152 59.9 43.8 65.8

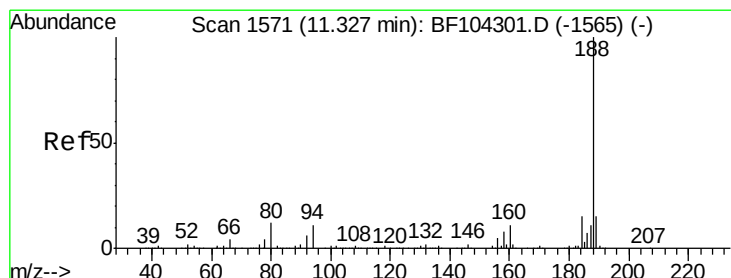
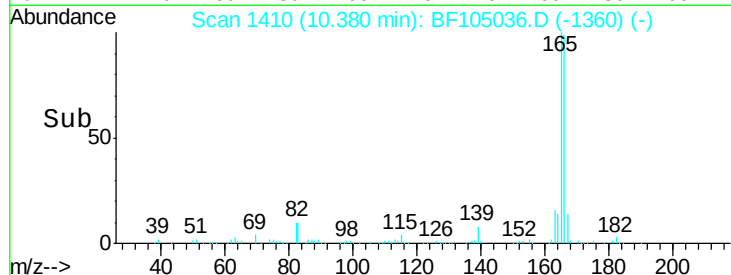
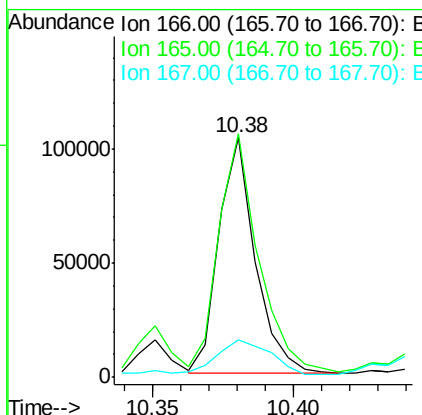
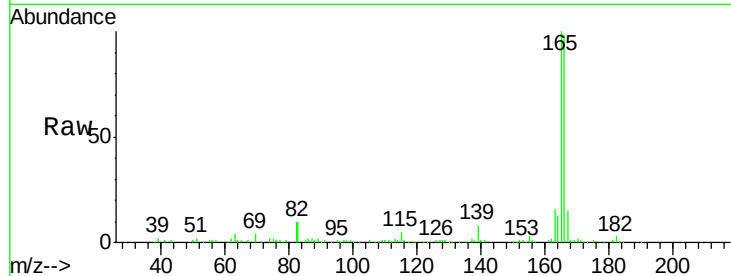




#57
Fluorene
 Concen: 8.740 ng
 RT: 10.38 min Scan# 1410
 Delta R.T. -0.01 min
 Lab File: BF105036.D
 Acq: 2 May 2018 17:35

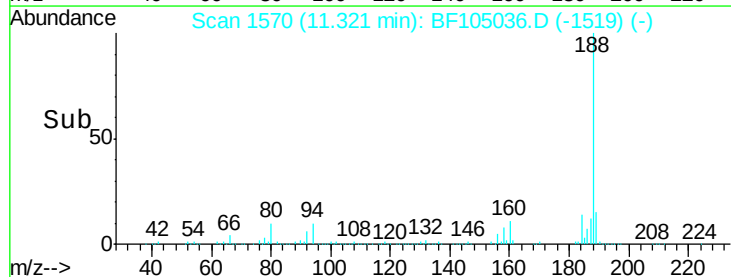
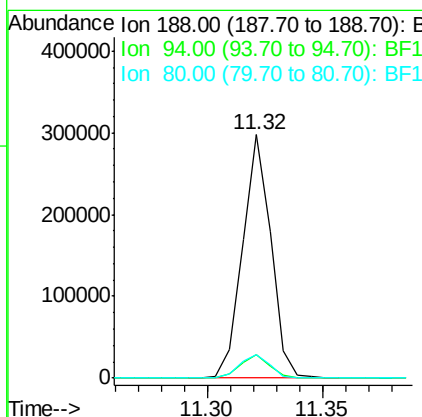
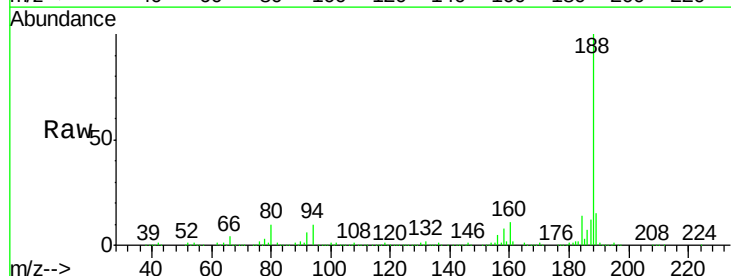
Instrument :
 BNA_F
 ClientSampleId :
 CL-02-043018-B

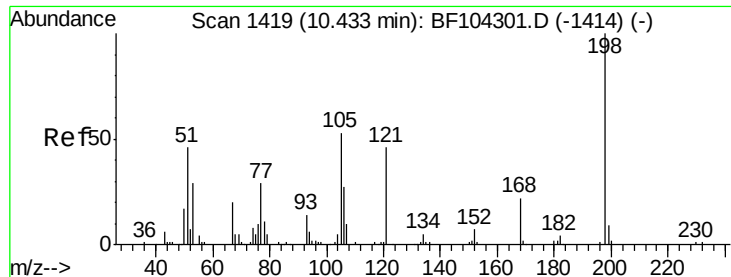
Tgt Ion:166 Resp: 93026
 Ion Ratio Lower Upper
 166 100
 165 101.8 79.8 119.8
 167 15.6 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: BF105036.D
 Acq: 2 May 2018 17:35

Tgt Ion:188 Resp: 255004
 Ion Ratio Lower Upper
 188 100
 94 9.7 8.5 12.7
 80 9.7 9.2 13.8

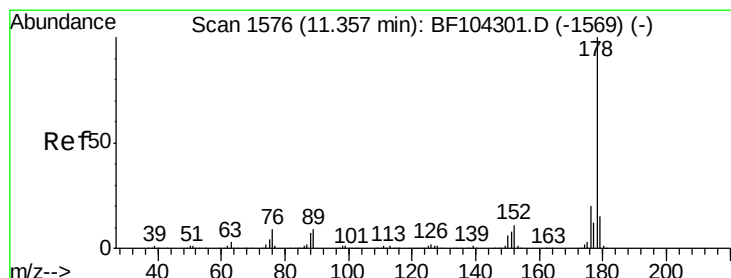
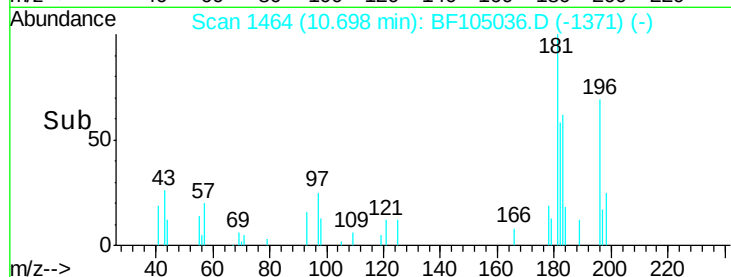
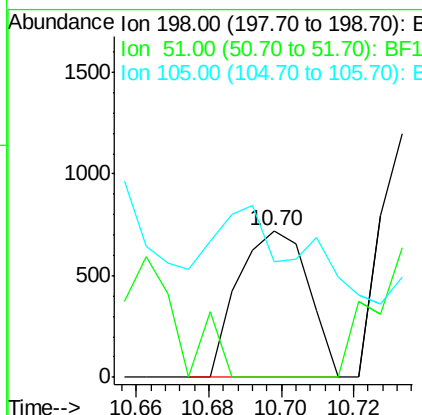
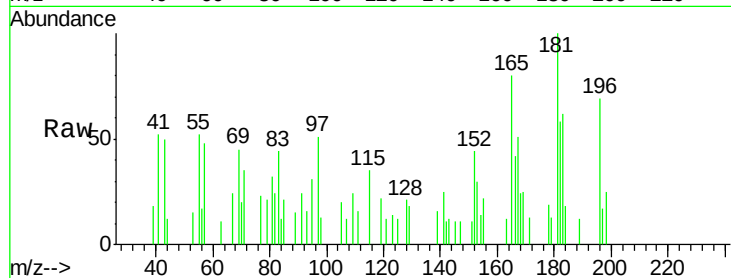




#64
 4,6-Dinitro-2-methylphenol
 Concen: 8.009 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. 0.25 min
 Lab File: BF105036.D
 Acq: 2 May 2018 17:35

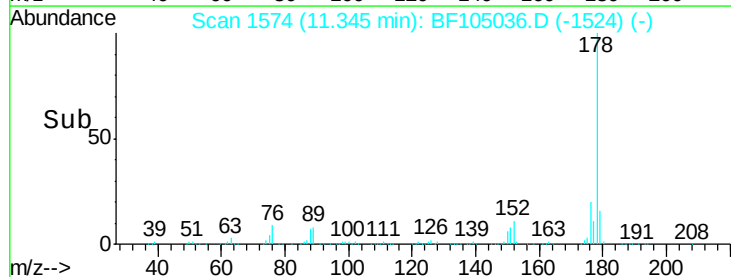
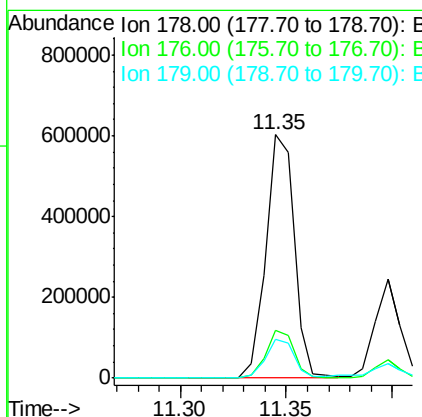
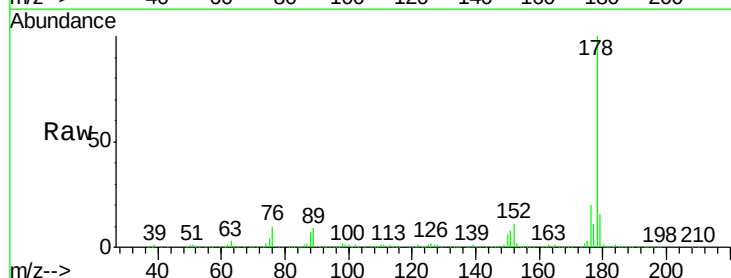
Instrument :
 BNA_F
 ClientSampleId :
 CL-02-043018-B

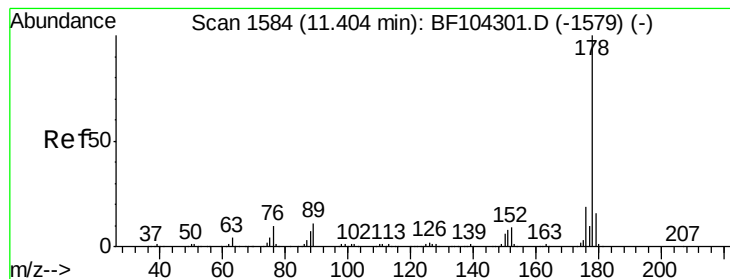
Tgt Ion:198 Resp: 971
 Ion Ratio Lower Upper
 198 100
 51 0.0 37.7 77.7#
 105 78.9 36.3 76.3#



#70
 Phenanthrene
 Concen: 39.649 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: BF105036.D
 Acq: 2 May 2018 17:35

Tgt Ion:178 Resp: 563056
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.8 23.8
 179 16.1 13.0 19.6





#71

Anthracene

Concen: 13.655 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

Instrument :

BNA_F

ClientSampleId :

CL-02-043018-B

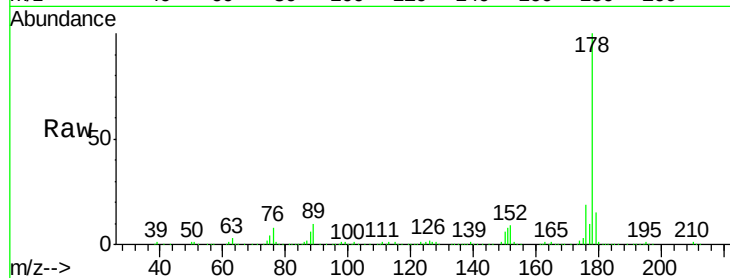
Tgt Ion:178 Resp: 197113

Ion Ratio Lower Upper

178 100

176 18.6 15.4 23.2

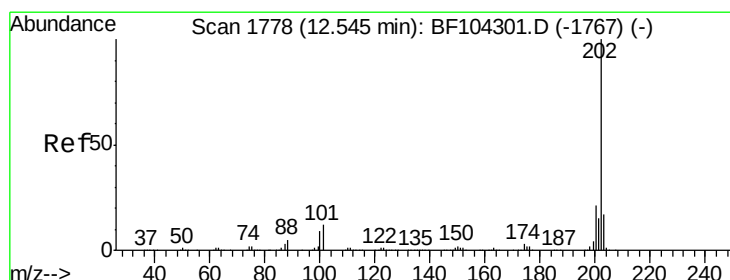
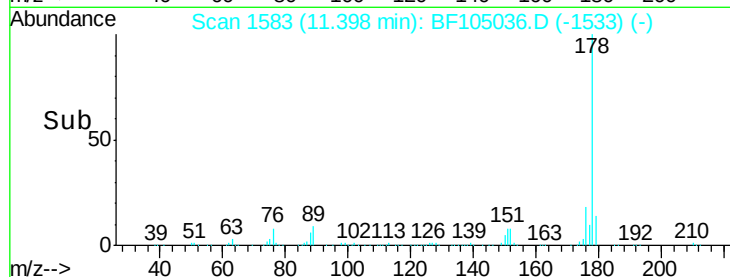
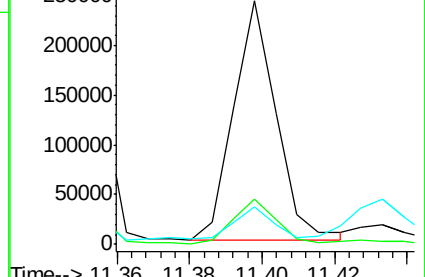
179 15.3 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 43.016 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.00 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

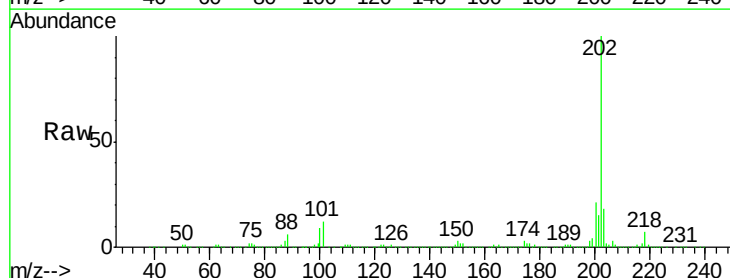
Tgt Ion:202 Resp: 638238

Ion Ratio Lower Upper

202 100

101 11.9 0.0 34.1

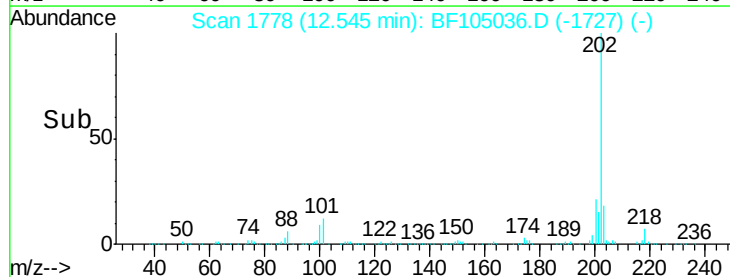
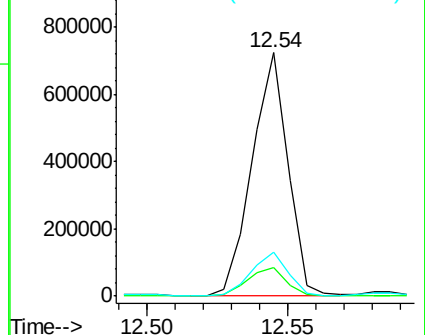
203 17.8 0.0 38.1

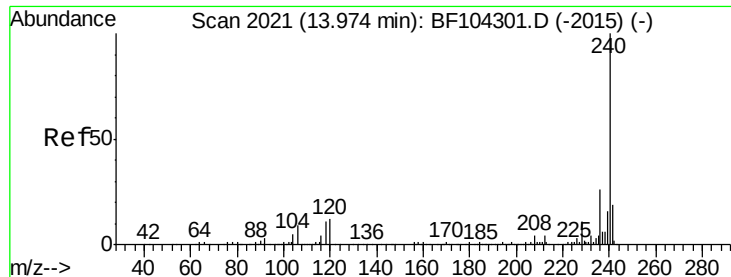


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

Instrument :

BNA_F

ClientSampleId :

CL-02-043018-B

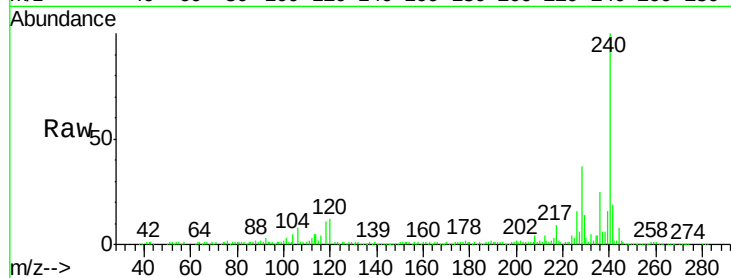
Tgt Ion:240 Resp: 196300

Ion Ratio Lower Upper

240 100

120 12.4 9.5 14.3

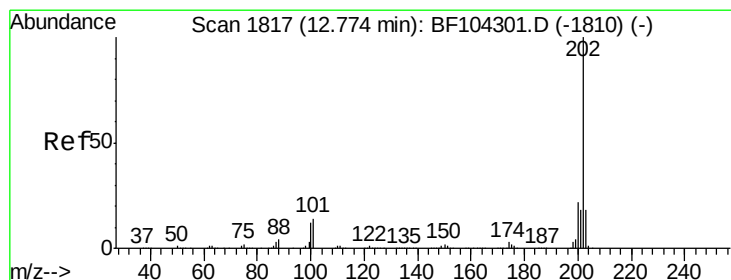
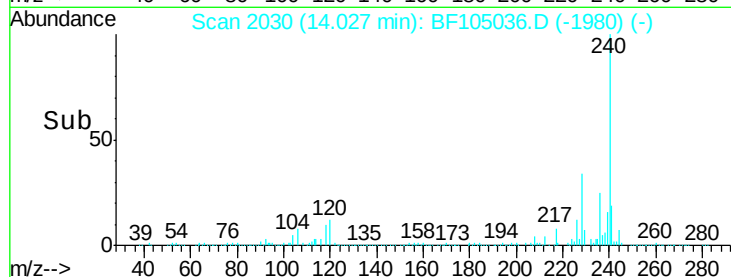
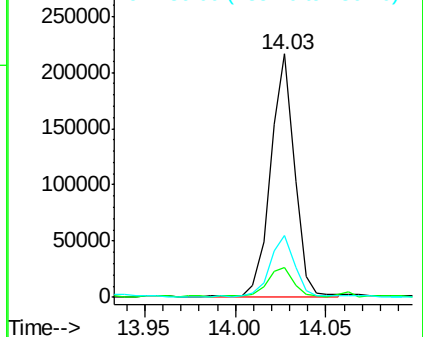
236 25.3 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 64.326 ng

RT: 12.78 min Scan# 1818

Delta R.T. 0.01 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

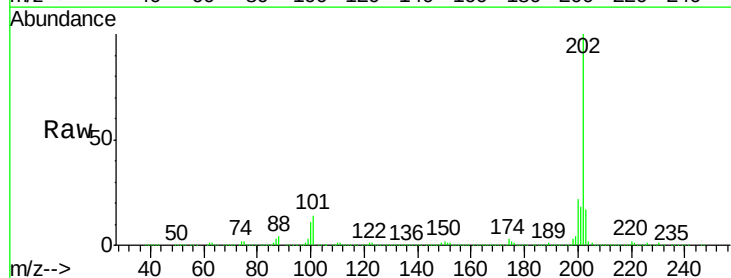
Tgt Ion:202 Resp: 935968

Ion Ratio Lower Upper

202 100

200 21.8 17.4 26.2

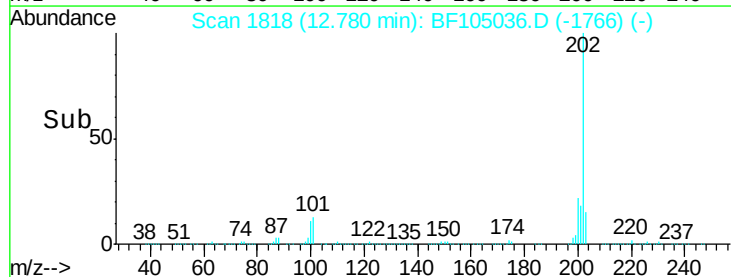
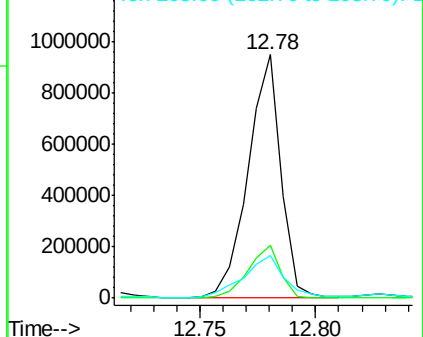
203 17.5 14.3 21.5

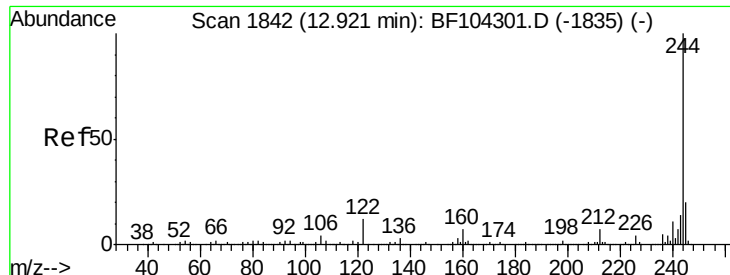


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 32.595 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

Instrument :

BNA_F

ClientSampleId :

CL-02-043018-B

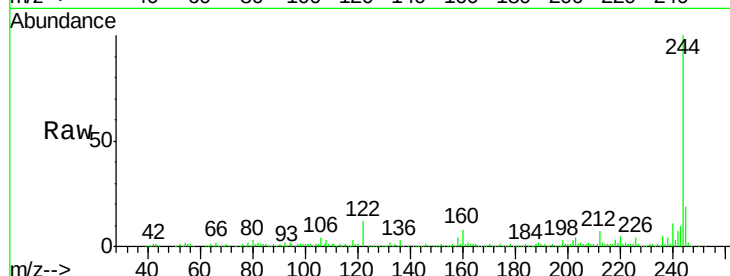
Tgt Ion:244 Resp: 280653

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

122 12.5 11.0 16.4

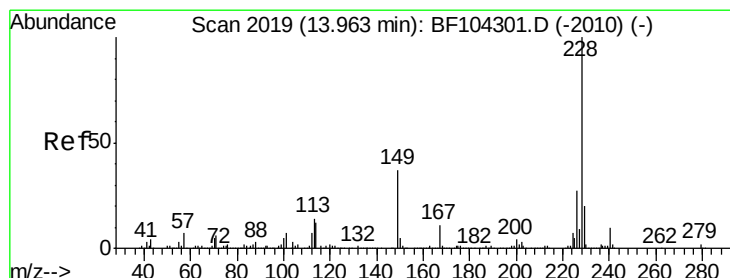
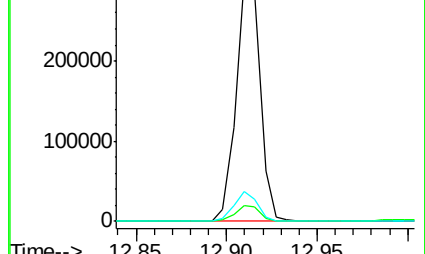
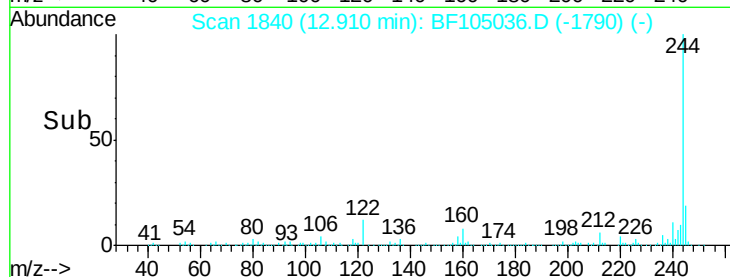


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

Time--> 12.85 12.90 12.95



#80

Benzo(a)anthracene

Concen: 39.918 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

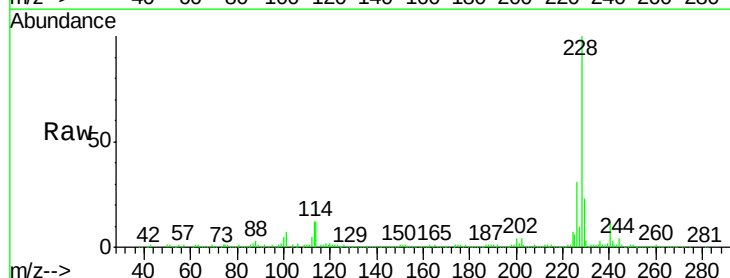
Tgt Ion:228 Resp: 468130

Ion Ratio Lower Upper

228 100

226 30.9 22.6 33.8

229 23.0 15.8 23.6

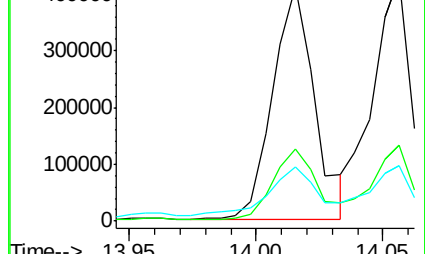
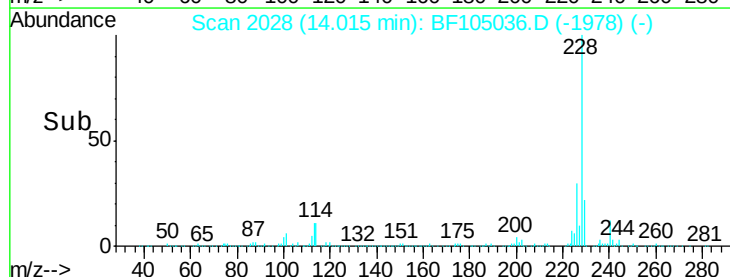


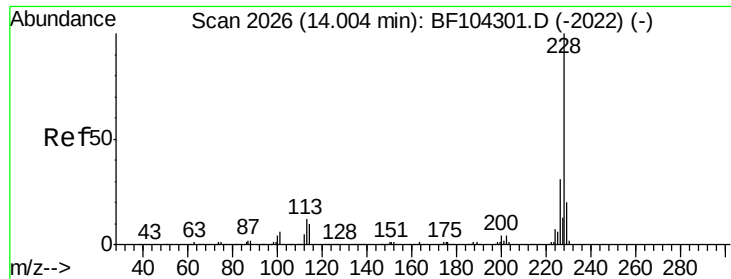
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

Time--> 13.95 14.00 14.05





#82

Chrysene

Concen: 37.499 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

Instrument :

BNA_F

ClientSampleId :

CL-02-043018-B

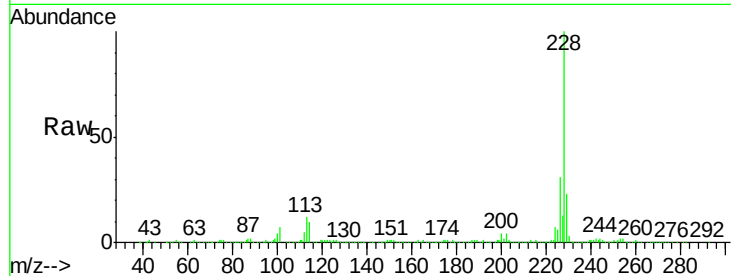
Tgt Ion:228 Resp: 451694

Ion Ratio Lower Upper

228 100

226 31.3 25.0 37.6

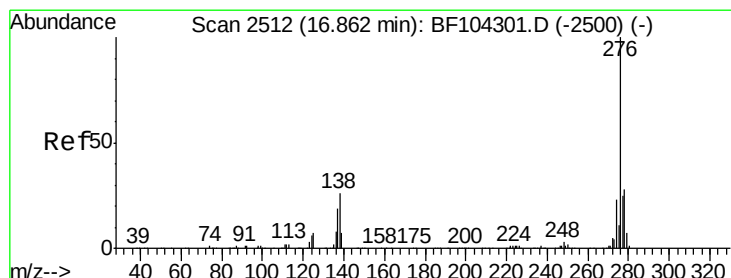
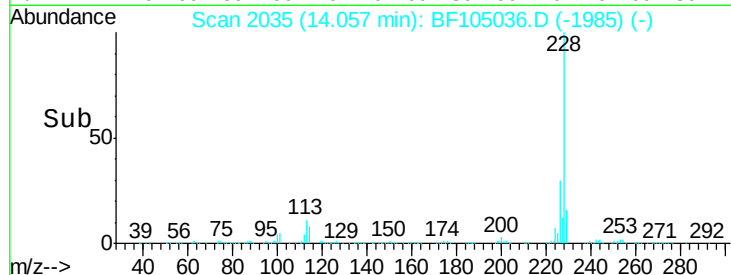
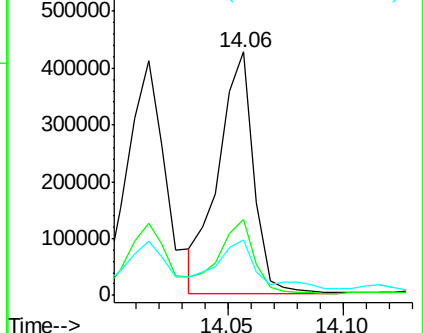
229 22.6 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 11.133 ng

RT: 17.07 min Scan# 2548

Delta R.T. -0.01 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

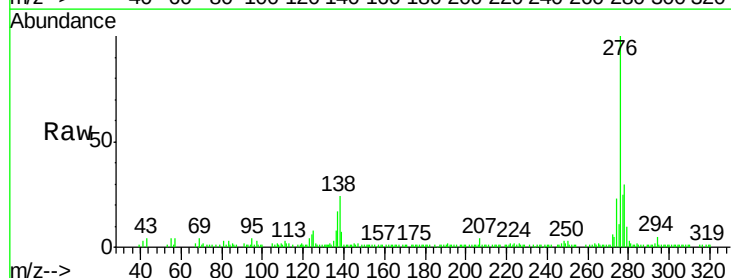
Tgt Ion:276 Resp: 113917

Ion Ratio Lower Upper

276 100

138 23.7 25.0 37.6#

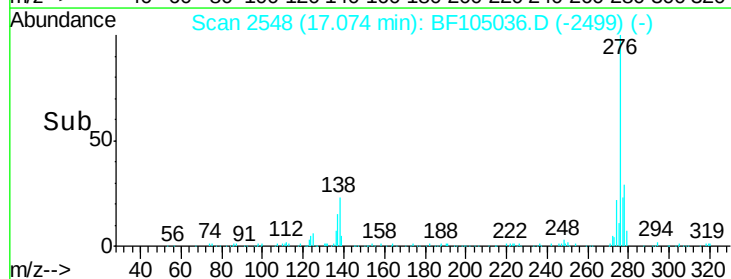
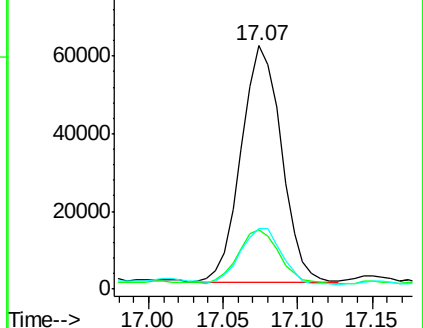
277 24.9 20.1 30.1

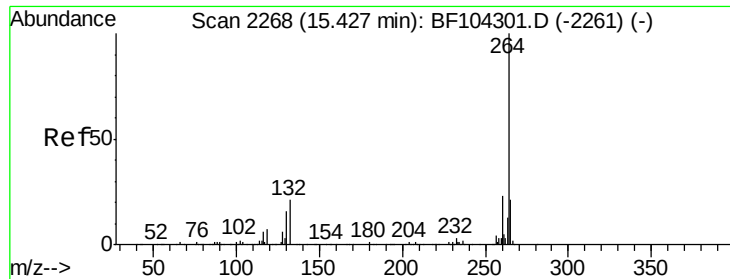


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



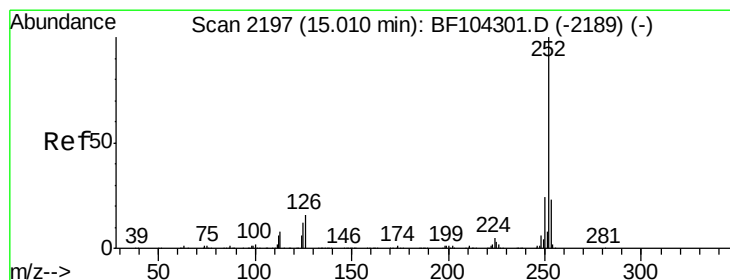
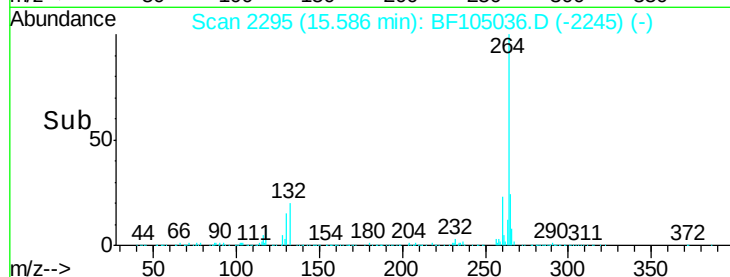
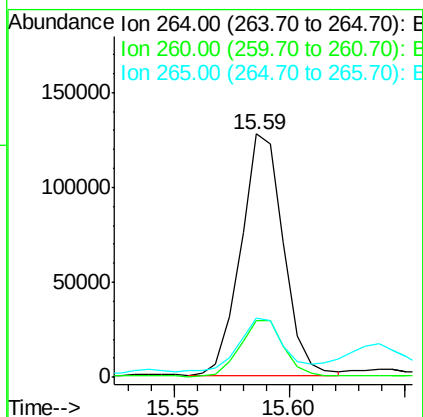
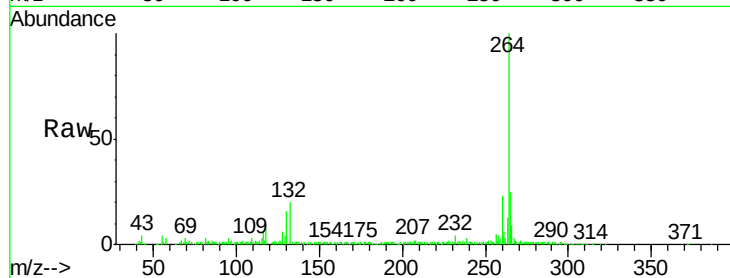


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.59 min Scan# 2295
Delta R.T. -0.01 min
Lab File: BF105036.D
Acq: 2 May 2018 17:35

Instrument :
BNA_F
ClientSampleId :
CL-02-043018-B

Tgt Ion: 264 Resp: 163255

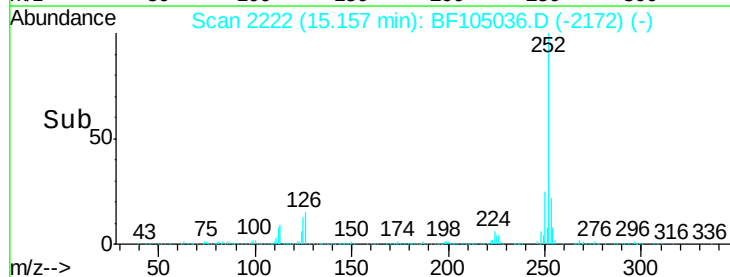
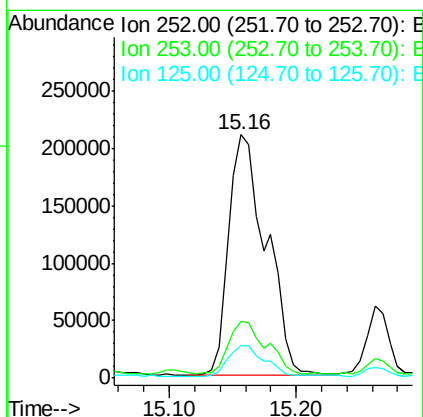
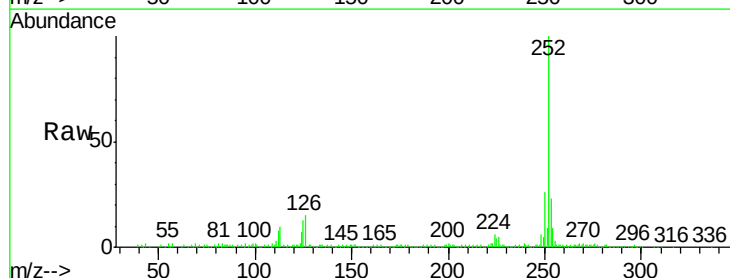
Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	24.5	17.5	26.3

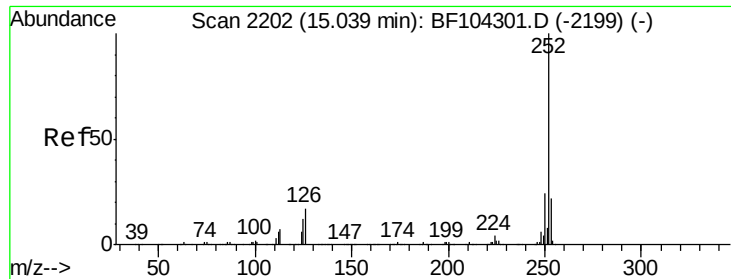


#87
Benzo(b)fluoranthene
Concen: 41.774 ng
RT: 15.16 min Scan# 2222
Delta R.T. -0.01 min
Lab File: BF105036.D
Acq: 2 May 2018 17:35

Tgt Ion: 252 Resp: 430726

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.0	25.6
125	13.4	9.0	13.6

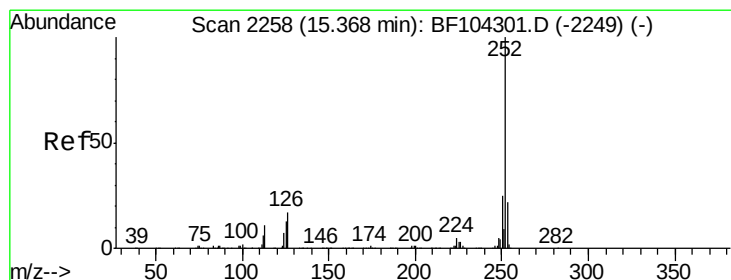
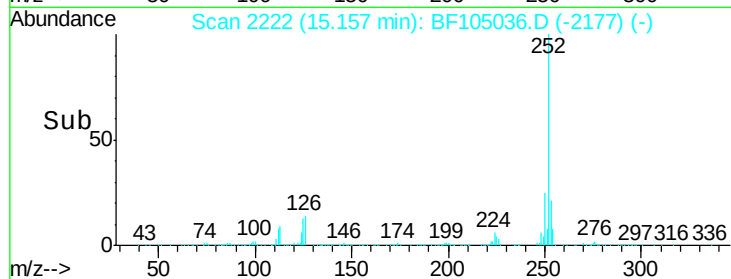
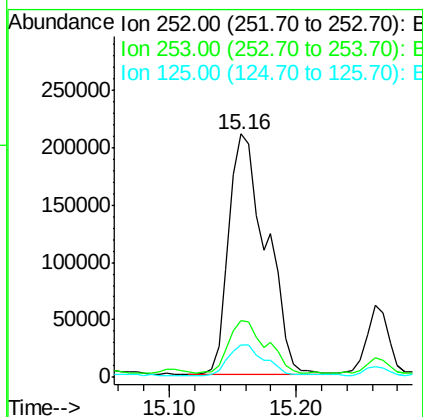
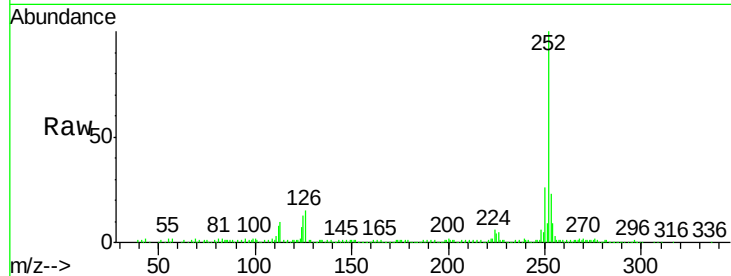




#88
Benzo(k)fluoranthene
Concen: 44.248 ng
RT: 15.16 min Scan# 2222
Delta R.T. -0.04 min
Lab File: BF105036.D
Acq: 2 May 2018 17:35

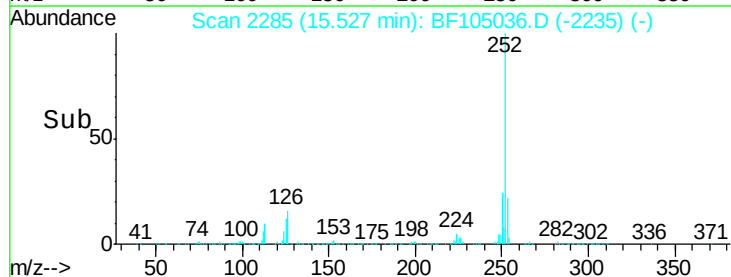
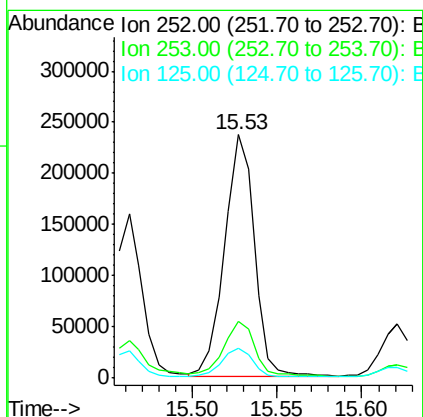
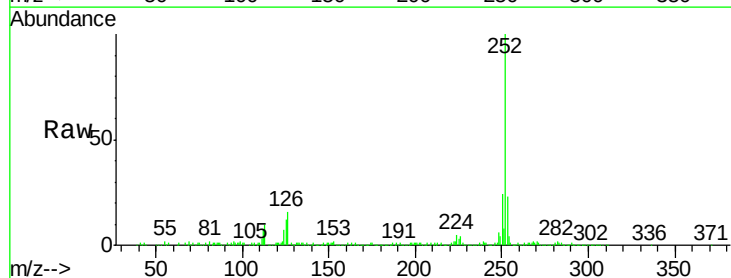
Instrument :
BNA_F
ClientSampleId :
CL-02-043018-B

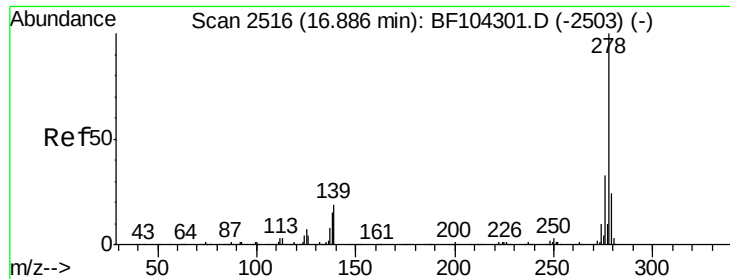
Tgt Ion:252 Resp: 430726
Ion Ratio Lower Upper
252 100
253 23.5 17.9 26.9
125 13.4 10.2 15.2



#89
Benzo(a)pyrene
Concen: 31.115 ng
RT: 15.53 min Scan# 2285
Delta R.T. -0.01 min
Lab File: BF105036.D
Acq: 2 May 2018 17:35

Tgt Ion:252 Resp: 287054
Ion Ratio Lower Upper
252 100
253 23.2 17.1 25.7
125 12.5 9.8 14.6





#90

Dibenzo(a,h)anthracene

Concen: 5.371 ng

RT: 17.08 min Scan# 2549

Delta R.T. -0.02 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

Instrument :

BNA_F

ClientSampleId :

CL-02-043018-B

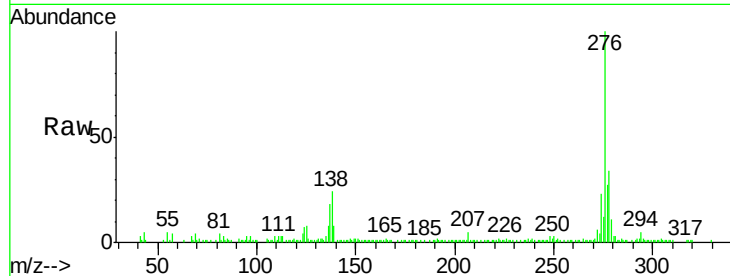
Tgt Ion:278 Resp: 40694

Ion Ratio Lower Upper

278 100

139 23.0 15.9 23.9

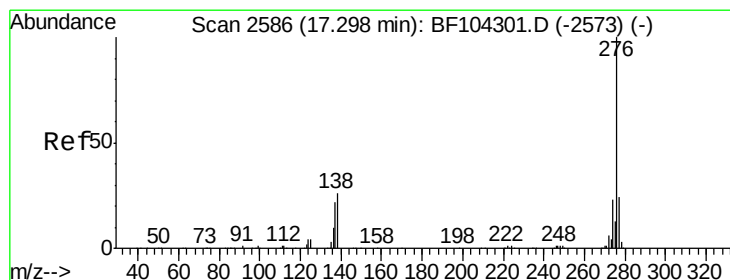
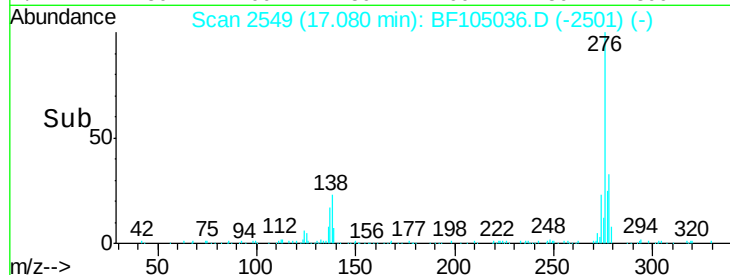
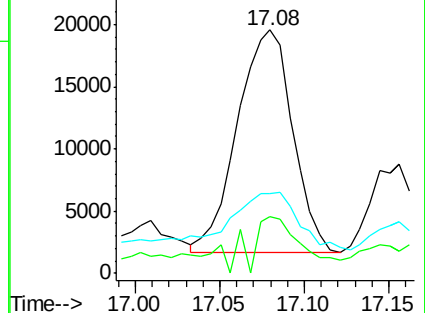
279 32.9 19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 16.659 ng

RT: 17.52 min Scan# 2624

Delta R.T. -0.01 min

Lab File: BF105036.D

Acq: 2 May 2018 17:35

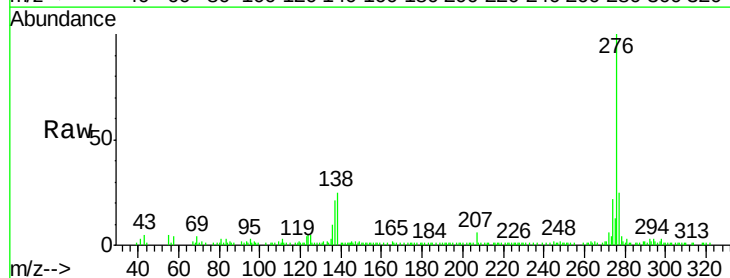
Tgt Ion:276 Resp: 122293

Ion Ratio Lower Upper

276 100

277 25.5 17.9 26.9

138 25.1 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

